

Water and Sewer Line and Related Structures Construction: 2002

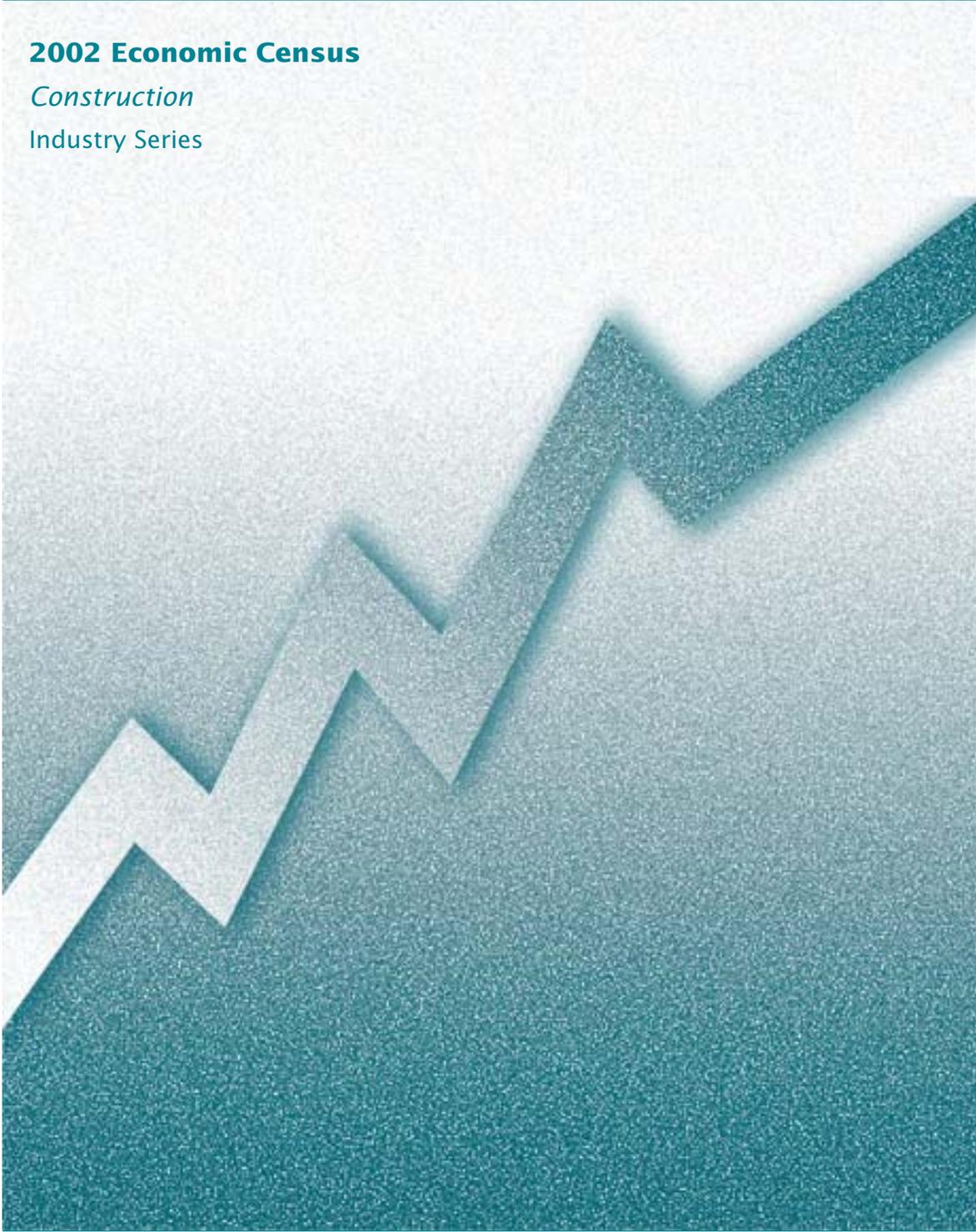
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2002 Economic Census

Construction

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Industry Statistics on 2002 NAICS Basis Distributed Among 1997 NAICS-Based Industries for the United States: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For detailed title descriptions, see Appendix F]

2002 NAICS code	1997 bridge code	Industry or bridge	Number of establishments	Total number of employees	Total payroll	Value of construction work ¹	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Capital expenditures, other than land
			A	B	C	D	E	F	G	H
237110		Water and sewer line and related structures construction	12 357	204 085	7 380 999	32 501 442	26 837 637	16 021 682	11 004 146	1 200 565
	23491000	Water, sewer, and pipeline construction (pt) .	7 708	156 061	5 633 824	24 196 664	20 281 495	12 097 641	8 333 381	943 467
	23499000	All other heavy construction (pt)	620	24 115	973 391	5 416 103	3 781 121	2 095 150	1 701 217	69 092
	23581000	Water well drilling contractors	4 028	23 910	773 785	2 888 675	2 775 021	1 828 891	969 548	188 005

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Employment Statistics for Establishments by State: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

Location of establishment	Number of establishments	Number of employees		Number of construction workers				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—	
		Total	Construction workers	January to March	April to June	July to September	October to December	Total	Construction workers		
											A
237110, Water and sewer line and related structures construction											
United States	12 357	204 085	162 096	S	165 443	172 973	165 903	7 380 999	5 311 584	1	
Alabama	161	2 967	2 318	2 095	2 361	2 434	2 383	84 524	D	5	
Alaska	118	702	523	670	536	507	379	28 864	20 867	13	
Arizona	236	4 596	3 777	3 757	3 811	3 749	3 791	146 732	D	8	
Arkansas	186	1 949	1 633	1 202	1 811	1 785	1 734	45 429	32 201	9	
California	945	21 334	17 425	14 857	18 144	18 694	18 007	902 597	654 435	5	
Colorado	315	6 269	5 000	4 640	5 100	5 287	4 975	232 945	D	6	
Connecticut	95	1 451	D	D	1 185	1 261	1 173	68 122	D	5	
Delaware	29	896	733	719	742	742	729	37 266	28 228	7	
District of Columbia	—	—	—	—	—	—	—	—	—	—	
Florida	609	14 162	11 666	10 956	11 650	11 883	12 172	456 395	324 292	8	
Georgia	552	7 594	6 038	5 961	6 003	6 136	6 051	240 785	172 070	9	
Hawaii	26	695	D	D	533	576	583	D	24 214	9	
Idaho	107	1 101	D	D	820	931	862	37 514	D	8	
Illinois	420	5 383	D	D	4 184	4 494	4 741	237 977	D	9	
Indiana	167	4 205	3 243	2 676	2 874	3 809	3 613	155 393	113 580	4	
Iowa	127	1 547	1 173	952	1 219	1 287	1 234	59 348	41 594	11	
Kansas	163	2 349	1 842	1 734	1 835	1 875	1 923	88 276	62 957	7	
Kentucky	239	3 095	2 551	2 272	2 683	2 691	2 559	102 260	77 078	10	
Louisiana	151	3 131	2 517	2 227	2 617	2 660	2 564	99 617	D	9	
Maine	89	1 293	1 074	786	1 278	1 505	727	60 030	43 440	5	
Maryland	160	3 377	2 589	2 507	2 616	2 715	2 520	135 134	88 982	6	
Massachusetts	237	3 171	2 357	2 125	2 460	2 505	2 337	148 341	104 637	7	
Michigan	485	6 499	4 944	3 529	5 446	5 563	5 240	239 531	170 994	6	
Minnesota	313	4 914	3 911	2 427	4 238	4 666	4 312	212 183	161 556	6	
Mississippi	106	1 509	D	D	1 200	1 253	1 228	43 065	D	9	
Missouri	344	4 496	3 505	3 128	3 506	3 842	3 543	162 100	123 115	11	
Montana	111	813	623	473	628	724	669	25 093	19 021	9	
Nebraska	109	1 158	889	780	933	966	876	40 688	28 129	7	
Nevada	70	1 896	1 539	1 418	1 654	1 531	1 552	69 700	54 519	8	
New Hampshire	63	868	642	537	673	702	655	34 369	21 987	5	
New Jersey	295	3 613	2 684	2 450	2 737	2 857	2 692	161 733	116 805	9	
New Mexico	95	2 372	1 985	1 877	1 941	2 103	2 020	67 949	D	9	
New York	388	6 049	4 284	3 611	4 591	4 561	4 371	296 910	203 439	6	
North Carolina	496	6 819	5 344	5 278	5 372	5 453	5 271	214 399	151 961	8	
North Dakota	54	387	288	228	302	348	272	D	8 208	11	
Ohio	510	7 944	6 215	5 114	5 965	7 122	6 660	263 308	199 897	6	
Oklahoma	222	2 021	1 541	1 509	1 475	1 623	1 558	57 996	39 874	9	
Oregon	178	3 123	2 506	2 092	2 473	2 759	2 700	90 046	64 921	5	
Pennsylvania	424	6 927	5 453	4 824	5 756	5 663	5 570	248 322	175 514	16	
Rhode Island	39	439	322	230	317	403	340	17 709	12 388	13	
South Carolina	253	2 888	2 204	2 050	2 203	2 281	2 281	89 557	62 708	7	
South Dakota	78	677	534	451	542	595	546	17 869	12 181	14	
Tennessee	185	3 606	D	D	2 901	2 906	2 824	122 032	D	8	
Texas	902	22 582	18 868	17 518	19 214	19 635	19 103	697 732	513 308	6	
Utah	124	2 090	1 690	1 428	1 801	1 971	1 559	63 165	45 875	16	
Vermont	47	1 109	737	579	689	829	852	50 019	26 266	4	
Virginia	454	7 860	6 362	6 247	6 542	6 512	6 147	269 254	196 992	8	
Washington	326	4 626	3 476	3 130	3 531	3 821	3 420	200 627	147 333	7	
West Virginia	156	1 140	906	674	899	989	1 062	40 785	31 446	12	
Wisconsin	284	3 777	2 824	2 141	2 894	3 237	3 023	155 854	116 508	11	
Wyoming	117	614	D	D	555	532	499	16 753	D	11	

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. General Statistics for Establishments by State: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of establishment	E ¹	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Total rental costs	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	Relative standard error of estimate (percent) for column—		
		A	B	C	D	E	F	G	H	I	C	H
237110, Water and sewer line and related structures construction												
United States	1	32 501 442	26 837 637	16 021 682	11 004 146	5 663 804	1 048 355	1 200 565	11 881 916	2	3	
Alabama	1	448 226	383 617	228 091	155 641	64 609	13 305	12 765	134 696	4	4	
Alaska	2	117 262	102 634	73 197	30 125	14 628	7 039	4 429	41 930	10	28	
Arizona	—	653 079	552 342	320 336	235 649	100 737	29 910	18 325	169 499	6	7	
Arkansas	2	240 688	207 404	114 289	99 183	33 284	11 500	11 516	93 746	7	16	
California	1	3 877 414	3 201 768	1 957 431	1 259 036	675 646	140 220	105 298	1 270 576	6	7	
Colorado	1	1 148 738	935 093	565 811	373 852	213 645	40 685	35 002	317 529	6	9	
Connecticut	—	267 753	232 882	158 242	75 271	34 871	6 786	9 382	94 767	4	14	
Delaware	—	136 290	107 937	66 294	41 759	28 353	4 524	5 412	60 287	7	—	
District of Columbia	—	—	—	—	—	—	—	—	—	—	—	
Florida	1	1 971 424	1 608 354	943 713	688 421	363 070	77 234	65 656	808 830	5	8	
Georgia	1	1 096 589	929 919	525 549	421 859	166 670	35 944	78 737	516 956	6	18	
Hawaii	—	134 480	113 796	70 120	45 157	20 685	3 500	3 893	38 082	9	8	
Idaho	1	163 523	135 120	73 101	62 158	28 402	7 830	6 893	64 811	8	8	
Illinois	1	903 201	784 677	442 361	344 194	118 524	25 297	25 114	304 478	7	9	
Indiana	—	637 268	542 806	342 774	201 185	94 462	26 821	21 054	205 839	3	3	
Iowa	—	241 186	215 076	152 085	68 206	26 110	5 827	14 776	122 938	7	8	
Kansas	1	376 047	317 672	178 350	140 371	58 375	13 455	11 283	136 938	5	5	
Kentucky	1	436 333	358 394	203 313	156 701	77 940	10 394	17 360	182 621	8	7	
Louisiana	—	402 201	338 753	215 898	125 593	63 448	13 115	13 149	217 731	6	12	
Maine	—	160 475	D	96 224	55 114	D	4 657	10 795	49 957	S	17	
Maryland	—	534 048	404 899	254 946	154 567	129 149	15 801	14 071	154 010	5	13	
Massachusetts	1	648 304	D	333 306	188 127	D	24 444	16 086	158 916	S	9	
Michigan	1	1 055 038	840 006	527 089	316 474	215 032	37 160	35 795	428 524	8	9	
Minnesota	—	1 097 763	777 632	441 816	343 282	320 132	31 265	35 256	311 208	5	5	
Mississippi	1	200 567	168 411	D	75 742	32 156	4 077	11 473	87 585	6	31	
Missouri	—	768 400	615 588	335 843	280 053	152 813	18 250	27 683	232 889	10	17	
Montana	1	115 892	99 802	61 060	40 553	16 089	4 554	6 066	61 867	8	20	
Nebraska	1	169 013	154 305	97 429	57 909	14 708	6 727	7 107	86 826	7	11	
Nevada	—	346 794	254 104	D	104 071	92 690	20 592	17 667	78 336	6	58	
New Hampshire	1	129 338	110 679	72 538	38 835	18 659	4 086	8 172	58 553	5	5	
New Jersey	—	697 873	532 466	372 349	167 076	165 408	14 902	24 443	225 944	8	8	
New Mexico	—	303 859	261 591	166 115	95 657	42 267	6 593	11 380	95 474	8	12	
New York	1	1 174 323	1 038 481	620 817	418 650	135 842	27 741	41 044	362 257	6	20	
North Carolina	1	859 674	732 686	401 494	342 409	126 988	21 129	46 039	415 095	7	14	
North Dakota	1	67 535	57 699	D	31 160	9 836	2 037	2 110	23 065	15	20	
Ohio	1	1 117 342	990 018	613 686	389 719	127 324	44 417	40 357	444 382	4	6	
Oklahoma	1	273 318	233 280	130 516	103 062	40 038	8 078	11 381	91 968	11	22	
Oregon	—	539 625	422 630	289 665	135 479	116 995	12 685	12 798	147 420	8	5	
Pennsylvania	1	1 173 944	974 479	577 302	399 362	199 465	40 617	44 555	427 865	22	17	
Rhode Island	—	D	D	39 532	D	15 170	2 857	2 353	28 609	S	14	
South Carolina	1	431 889	358 308	204 064	156 446	73 581	10 857	23 064	168 471	6	31	
South Dakota	1	105 957	83 399	42 814	40 646	22 557	3 789	4 031	45 457	14	22	
Tennessee	2	539 406	453 402	275 148	179 824	86 003	16 399	22 107	188 075	12	12	
Texas	1	3 270 518	2 690 078	1 427 752	1 266 662	580 440	97 895	110 240	1 244 502	6	7	
Utah	2	328 448	274 922	143 689	131 424	53 526	9 591	17 739	121 731	14	36	
Vermont	—	230 554	D	91 910	D	D	4 444	6 402	53 412	S	2	
Virginia	1	1 023 695	876 005	577 745	299 949	147 690	26 738	52 760	528 051	6	14	
Washington	1	863 750	688 370	411 181	301 703	175 380	26 590	26 521	314 304	5	6	
West Virginia	1	153 495	D	74 641	65 045	D	4 759	8 409	65 147	S	7	
Wisconsin	1	732 646	620 197	400 615	222 567	112 449	19 856	38 064	366 153	10	19	
Wyoming	1	D	D	39 783	20 612	D	1 402	4 563	43 610	S	10	

¹Construction receipts were obtained from census respondent forms. For establishments whose respondent forms were not received at the time data were tabulated, these data were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 4. Detailed Statistics for Establishments: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
237110, Water and sewer line and related structures construction		
All establishments number	12 357	3
All employees number	204 085	1
Construction workers in March number	S	S
Construction workers in May number	165 443	2
Construction workers in August number	172 973	2
Construction workers in November number	165 903	2
Average number of construction workers number	162 096	2
Other employees in March number	S	S
Other employees in May number	42 133	2
Other employees in August number	41 859	2
Other employees in November number	40 956	2
Average number of other employees number	41 990	2
Total payroll \$1,000	7 380 999	1
Construction workers \$1,000	5 311 584	1
Other employees \$1,000	2 069 415	2
First-quarter payroll, all employees \$1,000	1 646 351	1
Fringe benefits, all employees \$1,000	1 752 650	2
Legally required expenditures \$1,000	1 036 078	2
Voluntary expenditures \$1,000	716 572	2
Value of business done ¹ \$1,000	32 689 633	1
Value of construction work ¹ \$1,000	32 501 442	1
Value of construction work on government owned projects \$1,000	17 937 426	2
Value of construction work on federally owned projects \$1,000	1 420 883	3
Value of construction work on state and locally owned projects \$1,000	16 516 543	2
Value of construction work on privately owned projects \$1,000	14 564 016	2
Other business receipts \$1,000	188 191	11
Value of construction work subcontracted in from others \$1,000	8 801 724	2
Net value of construction work \$1,000	26 837 637	2
Value added \$1,000	16 021 682	2
Selected costs \$1,000	16 667 951	2
Materials, parts, and supplies \$1,000	10 335 571	2
Construction work subcontracted out to others \$1,000	5 663 804	2
Selected power, fuels, and lubricants \$1,000	668 576	2
Purchased electricity \$1,000	49 033	3
Natural gas and manufactured gas \$1,000	19 717	4
Gasoline and diesel fuel \$1,000	547 074	2
On-highway use of gasoline and diesel fuel \$1,000	266 629	2
Off-highway use of gasoline and diesel fuel \$1,000	280 445	3
All other fuels and lubricants \$1,000	52 752	3
Total rental costs \$1,000	1 048 355	2
Machinery and equipment \$1,000	884 683	2
Buildings \$1,000	163 672	3
Selected purchased services \$1,000	1 303 679	3
Communication services \$1,000	250 231	1
Repairs to buildings and other structures \$1,000	232 179	3
Repairs to machinery and equipment \$1,000	565 490	4
Legal services \$1,000	82 537	5
Accounting, auditing, and bookkeeping services \$1,000	110 083	11
Advertising and promotional services \$1,000	S	S
Beginning-of-year gross book value of depreciable assets \$1,000	11 131 835	2
Capital expenditures, other than land \$1,000	1 200 565	3
Retirements and disposition of depreciable assets \$1,000	450 484	2
End-of-year gross book value of depreciable assets \$1,000	11 881 916	2
Depreciation charges during year \$1,000	1 290 066	2
Establishments with inventories number	2 923	-
Value of construction work for establishments with inventories \$1,000	8 682 587	4
End-of-2002, inventories of materials and supplies \$1,000	200 987	4
End-of-2001, inventories of materials and supplies \$1,000	189 762	5
Establishments with no inventories number	8 320	-
Value of construction work for establishments with no inventories \$1,000	22 493 237	-
Establishments not reporting inventories number	1 113	-
Value of construction work for establishment not reporting inventores \$1,000	1 325 617	-

¹For the 2002 Economic Census, the definitions of value of business done and value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Selected Statistics for Establishments by Employment Size Class: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Employment size class	E ¹	Number of establishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	C
237110, Water and sewer line and related structures construction											
All establishments	1	12 357	204 085	7 380 999	32 689 633	32 501 442	26 837 637	16 021 682	11 004 146	5 663 804	1
Establishments with—											
1 to 4 employees	—	5 181	11 137	247 841	1 422 090	1 415 430	1 288 744	775 973	519 431	126 686	6
5 to 9 employees	—	2 767	18 002	545 116	2 192 356	2 179 863	1 973 094	1 248 484	737 104	206 769	6
10 to 19 employees	—	1 919	25 636	873 713	3 307 801	3 280 852	2 894 471	1 788 334	1 133 086	386 382	6
20 to 49 employees	—	1 671	50 993	1 962 063	8 164 180	8 104 441	6 843 236	4 099 177	2 803 798	1 261 205	4
50 to 99 employees	—	509	34 683	1 404 534	6 387 227	6 365 886	5 160 590	2 954 351	2 227 581	1 205 295	1
100 to 249 employees	—	249	36 974	1 515 412	7 119 239	7 071 525	5 545 873	3 317 976	2 275 611	1 525 652	3
250 to 499 employees	—	42	13 810	512 166	2 482 244	2 469 398	1 823 875	1 058 572	778 149	645 523	4
500 to 999 employees	—	17	D	D	D	D	D	D	D	D	S
1,000 employees or more	—	1	D	D	D	D	D	D	D	D	S

¹Construction receipts were obtained from census respondent forms. For establishments whose respondent forms were not received at the time data were tabulated, these data were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²For the 2002 Economic Census, the definitions of value of business done and value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6. Selected Statistics for Establishments by Value of Business Done Size Class: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Dollar value size class	E ¹	Number of establishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	G
237110, Water and sewer line and related structures construction											
All establishments	1	12 357	204 085	7 380 999	32 689 633	32 501 442	26 837 637	16 021 682	11 004 146	5 663 804	2
Establishments with value of business done—											
Less than \$25,000	5	73	S	S	S	S	S	S	S	S	S
\$25,000 to \$49,999	—	280	S	S	S	S	S	S	S	S	S
\$50,000 to \$99,999	—	632	900	12 532	47 199	47 013	43 399	26 812	16 773	3 614	16
\$100,000 to \$249,999	—	2 273	4 945	90 574	378 262	375 630	350 275	230 670	122 236	25 355	8
\$250,000 to \$499,999	—	2 272	8 984	199 068	807 108	802 645	754 129	492 608	265 984	48 516	8
\$500,000 to \$999,999	—	2 251	15 974	451 596	1 610 679	1 595 602	1 481 437	942 503	554 010	114 166	7
\$1,000,000 to \$2,499,999	—	2 053	27 997	912 284	3 243 184	3 231 187	2 912 263	1 821 137	1 103 124	318 923	6
\$2,500,000 to \$4,999,999	—	1 045	25 404	967 728	3 719 453	3 691 204	3 196 982	1 905 804	1 319 427	494 222	5
\$5,000,000 to \$9,999,999	—	733	28 557	1 168 410	5 076 668	5 036 940	4 234 396	2 470 482	1 803 641	802 545	4
\$10,000,000 or more	—	746	90 924	3 575 834	17 795 487	17 709 866	13 854 619	8 123 925	5 816 315	3 855 247	2

¹Construction receipts were obtained from census respondent forms. For establishments whose respondent forms were not received at the time data were tabulated, these data were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²For the 2002 Economic Census, the definitions of value of business done and value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 7. Value of Construction Work for Establishments by Type of Construction: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
237110, Water and sewer line and related structures construction								
Total	32 501 442	22 408 523	6 480 952	3 611 967	1	1	2	2
Building construction, total	D	D	389 522	242 134	S	S	3	7
Other building construction	D	D	389 522	242 134	S	S	3	7
Nonbuilding construction, total	30 590 804	21 129 540	6 091 431	3 369 833	1	1	2	2
Sewers, water mains, and related facilities	22 890 974	16 244 003	3 781 786	2 865 185	1	2	3	2
Sewers, sewer lines, septic systems, and related facilities	12 334 008	8 678 644	2 085 475	1 569 889	2	2	4	3
Water mains, storage, and related facilities	10 556 966	7 565 359	1 696 311	1 295 296	2	2	4	3
Sewage and water treatment plants	4 593 460	2 731 620	1 605 872	255 968	1	1	2	4
Sewage treatment plants	2 480 306	1 405 693	952 888	121 725	1	2	2	5
Water treatment plants	2 113 154	1 325 927	652 984	134 243	2	2	2	6
Other nonbuilding construction	3 106 371	2 153 917	703 773	248 681	2	2	3	2
Construction work, nsk	D	D	—	—	S	S	—	—

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 8. Selected Statistics for Establishments by Specialization in Types of Construction: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of construction work by type of construction was not provided in Table 7. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at the end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

Item	Number of establishments	Total number of employees	Total payroll	Value of construction work for specialized type	Net value of construction work	Value added	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	G
237110, Water and sewer line and related structures construction								
Total	12 357	204 085	7 380 999	X	26 837 637	16 021 682	5 663 804	2
Establishments specializing 51 percent or more...	10 162	137 717	4 893 198	16 665 365	17 759 788	10 770 174	3 413 777	2
Building construction, total								
Establishments specializing 51 percent or more...	1 260	6 647	207 187	685 952	770 589	511 580	23 003	19
Specialization 100 percent	522	2 409	73 418	264 938	257 099	173 398	7 839	18
Specialization 90 to 99 percent	396	2 106	64 717	241 148	253 911	160 610	4 267	15
Specialization 80 to 89 percent	53	431	16 860	43 008	51 728	37 307	352	50
Specialization 70 to 79 percent	75	660	23 339	56 868	77 270	51 330	2 565	40
Specialization 60 to 69 percent	130	693	17 835	48 188	74 032	50 556	2 171	41
Specialization 51 to 59 percent	84	349	11 017	31 802	56 548	38 380	5 809	67
Other building construction								
Establishments specializing 51 percent or more...	1 260	6 647	207 187	685 952	770 589	511 580	23 003	19
Specialization 100 percent	522	2 409	73 418	264 938	257 099	173 398	7 839	18
Specialization 90 to 99 percent	396	2 106	64 717	241 148	253 911	160 610	4 267	15
Specialization 80 to 89 percent	53	431	16 860	43 008	51 728	37 307	352	50
Specialization 70 to 79 percent	75	660	23 339	56 868	77 270	51 330	2 565	40
Specialization 60 to 69 percent	130	693	17 835	48 188	74 032	50 556	2 171	41
Specialization 51 to 59 percent	84	349	11 017	31 802	56 548	38 380	5 809	67
Nonbuilding construction, total								
Establishments specializing 51 percent or more...	8 899	D	D	D	D	D	D	S
Specialization 100 percent	5 480	D	D	D	D	D	D	S
Specialization 90 to 99 percent	366	6 599	271 190	967 753	861 720	540 198	170 557	13
Specialization 80 to 89 percent	543	9 181	326 063	1 333 682	1 289 027	776 408	332 122	3
Specialization 70 to 79 percent	814	18 544	698 955	2 086 403	2 365 022	1 374 097	504 541	4
Specialization 60 to 69 percent	935	D	D	D	D	D	D	S
Specialization 51 to 59 percent	761	19 798	787 620	1 842 941	2 887 637	1 694 407	581 460	8
Sewers, water mains, and related facilities								
Establishments specializing 51 percent or more...	8 389	117 540	4 140 252	13 735 468	14 814 575	9 058 989	2 481 358	3
Specialization 100 percent	5 255	49 619	1 572 921	6 544 096	5 765 230	3 786 390	778 866	5
Specialization 90 to 99 percent	354	5 976	234 424	831 199	755 067	476 189	133 827	17
Specialization 80 to 89 percent	499	7 306	265 942	925 657	942 592	561 322	187 570	4
Specialization 70 to 79 percent	775	16 853	636 066	1 833 468	2 103 156	1 221 815	426 995	5
Specialization 60 to 69 percent	835	21 157	779 535	2 156 518	2 886 842	1 583 839	594 942	7
Specialization 51 to 59 percent	671	16 628	651 364	1 444 530	2 361 688	1 429 434	359 158	13
Sewers, sewer lines, septic systems, and related facilities								
Establishments specializing 51 percent or more...	3 806	69 692	2 448 595	7 995 044	8 790 391	5 398 029	1 634 052	3
Specialization 100 percent	1 839	24 419	730 112	3 218 710	2 776 578	1 859 298	442 132	4
Specialization 90 to 99 percent	206	2 782	103 821	429 097	376 399	237 217	86 071	14
Specialization 80 to 89 percent	280	4 688	176 945	617 692	615 955	356 300	139 123	3
Specialization 70 to 79 percent	420	11 038	424 007	1 183 579	1 346 871	829 185	288 449	6
Specialization 60 to 69 percent	589	15 223	556 139	1 574 983	2 100 261	1 141 752	442 894	9
Specialization 51 to 59 percent	472	11 542	457 571	970 983	1 574 327	974 278	235 384	6
Water mains, storage, and related facilities								
Establishments specializing 51 percent or more...	4 583	47 848	1 691 657	5 740 424	6 024 184	3 660 960	847 306	7
Specialization 100 percent	3 416	25 199	842 809	3 325 386	2 988 652	1 927 092	336 734	10
Specialization 90 to 99 percent	147	3 195	130 603	402 102	378 668	238 973	47 757	40
Specialization 80 to 89 percent	219	2 618	88 997	307 965	326 637	205 022	48 447	11
Specialization 70 to 79 percent	355	5 815	212 059	649 889	756 285	392 630	138 546	9
Specialization 60 to 69 percent	246	5 934	223 396	581 536	786 580	442 087	152 049	3
Specialization 51 to 59 percent	199	5 086	193 793	473 546	787 361	455 156	123 774	35
Sewage and water treatment plants								
Establishments specializing 51 percent or more...	491	13 055	531 544	2 190 156	2 123 011	1 166 823	899 927	2
Specialization 100 percent	226	2 531	98 982	504 353	360 244	173 765	144 109	3
Specialization 90 to 99 percent	12	623	36 766	136 554	106 653	64 009	36 730	5
Specialization 80 to 89 percent	45	1 876	60 121	408 025	346 435	215 086	144 552	6
Specialization 70 to 79 percent	39	1 690	62 889	252 935	261 867	152 283	77 546	2
Specialization 60 to 69 percent	80	3 166	136 531	489 877	521 862	296 708	274 687	2
Specialization 51 to 59 percent	89	3 170	136 256	398 412	525 950	264 973	222 303	7
Sewage treatment plants								
Establishments specializing 51 percent or more...	210	7 716	314 779	1 308 669	1 277 026	672 436	555 263	2
Specialization 100 percent	43	1 112	45 732	215 089	156 946	72 408	58 143	3
Specialization 90 to 99 percent	9	579	34 162	123 934	99 350	58 968	30 221	5
Specialization 80 to 89 percent	32	1 340	39 981	276 656	222 012	113 918	111 732	5
Specialization 70 to 79 percent	17	721	24 863	104 849	110 034	51 288	29 221	5
Specialization 60 to 69 percent	44	2 266	101 734	381 841	399 321	220 308	226 323	2
Specialization 51 to 59 percent	65	1 697	68 309	206 300	289 363	155 546	99 623	8

See footnotes at end of table

Table 8. Selected Statistics for Establishments by Specialization in Types of Construction: 2002—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of construction work by type of construction was not provided in Table 7. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at the end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

Item	Number of establishments	Total number of employees	Total payroll	Value of construction work for specialized type	Net value of construction work	Value added	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	G
Water treatment plants								
Establishments specializing 51 percent or more...	281	5 339	216 765	881 487	845 984	494 387	344 664	4
Specialization 100 percent	183	1 419	53 250	289 264	203 298	101 357	85 966	5
Specialization 90 to 99 percent	4	44	2 604	12 620	7 302	5 041	6 509	14
Specialization 80 to 89 percent	12	536	20 140	131 370	124 423	101 168	32 820	20
Specialization 70 to 79 percent	22	969	38 027	148 086	151 833	100 994	48 325	2
Specialization 60 to 69 percent	35	899	34 797	108 036	122 542	76 400	48 364	4
Specialization 51 to 59 percent	24	1 472	67 947	192 112	236 586	109 428	122 680	11
Other nonbuilding construction								
Establishments specializing 51 percent or more...	20	D	D	D	D	D	D	S
Specialization 60 to 69 percent	20	D	D	D	D	D	D	S
Construction work, nsk								
Establishments specializing 51 percent or more...	3	D	D	D	D	D	D	S
Specialization 100 percent	3	D	D	D	D	D	D	S

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 9. Value of Business Done for Establishments by Kind-of-Business Activity: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Based on their primary business activity or combination of activities, establishments were classified into this specific industry. These establishments, however, may also be engaged in other kinds of business activities. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done ¹	Relative standard error of estimate (percent)
237110, Water and sewer line and related structures construction		
Total	32 689 633	1
Heavy construction and civil engineering construction, total	24 435 509	2
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines	24 435 509	2
Special trade contractors, total	2 855 983	4
Water well drilling contractor	2 855 983	3
All other construction activities	5 170 482	2
Other business activities secondary to construction activities, total	D	S
All other business activities secondary to construction activities	D	S
Kind of business activity, nsk	D	S

¹For the 2002 Economic Census, the definition of value of business done has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 10. Selected Statistics for Establishments by Specialization in Kind-of-Business Activity: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. This table presents selected statistics for establishments according to degree of specialization by major activity of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of business activity was not provided in Table 9. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, and nonsampling error, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

Item	Number of establishments	Total number of employees	Total payroll	Value of construction work for specialized kind of business	Net value of construction work	Value added	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	G
237110, Water and sewer line and related structures construction								
Total	12 357	204 085	7 380 999	X	26 837 637	16 021 682	5 663 804	2
Establishments specializing 51 percent or more...	11 886	186 839	6 704 379	26 414 377	24 593 347	14 569 378	5 168 613	2
Heavy construction and civil engineering construction, total								
Establishments specializing 51 percent or more...	7 745	160 217	5 819 907	23 235 155	21 441 383	12 449 323	4 982 056	2
Specialization 100 percent	4 597	85 689	3 221 143	14 398 779	11 985 328	7 002 525	2 413 451	3
Specialization 90 to 99 percent	842	16 734	622 955	2 608 767	2 288 159	1 339 940	483 778	4
Specialization 80 to 89 percent	553	12 498	436 407	1 670 504	1 588 048	844 023	423 467	8
Specialization 70 to 79 percent	605	16 177	470 324	1 658 666	1 776 190	1 041 427	490 209	3
Specialization 60 to 69 percent	513	13 951	526 245	1 637 645	1 900 046	1 017 824	703 689	6
Specialization 51 to 59 percent	636	15 168	542 833	1 260 795	1 903 611	1 203 584	467 462	3
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines								
Establishments specializing 51 percent or more...	7 745	160 217	5 819 907	23 235 155	21 441 383	12 449 323	4 982 056	2
Specialization 100 percent	4 597	85 689	3 221 143	14 398 779	11 985 328	7 002 525	2 413 451	3
Specialization 90 to 99 percent	842	16 734	622 955	2 608 767	2 288 159	1 339 940	483 778	4
Specialization 80 to 89 percent	553	12 498	436 407	1 670 504	1 588 048	844 023	423 467	8
Specialization 70 to 79 percent	605	16 177	470 324	1 658 666	1 776 190	1 041 427	490 209	3
Specialization 60 to 69 percent	513	13 951	526 245	1 637 645	1 900 046	1 017 824	703 689	6
Specialization 51 to 59 percent	636	15 168	542 833	1 260 795	1 903 611	1 203 584	467 462	3
Special trade contractors, total								
Establishments specializing 51 percent or more...	4 027	23 906	773 680	2 782 530	2 774 394	1 828 440	113 631	7
Specialization 100 percent	3 372	19 450	631 625	2 393 024	2 298 763	1 513 338	94 262	6
Specialization 90 to 99 percent	213	1 812	62 196	197 765	204 491	140 144	5 271	18
Specialization 80 to 89 percent	62	525	14 872	45 736	51 891	31 115	D	S
Specialization 70 to 79 percent	142	796	23 476	61 588	81 715	60 828	1 478	31
Specialization 60 to 69 percent	163	891	26 426	52 486	79 866	50 214	5 933	65
Specialization 51 to 59 percent	76	433	15 084	31 931	57 669	32 802	D	S
Water well drilling contractor								
Establishments specializing 51 percent or more...	4 027	23 906	773 680	2 782 530	2 774 394	1 828 440	113 631	6
Specialization 100 percent	3 372	19 450	631 625	2 393 024	2 298 763	1 513 338	94 262	6
Specialization 90 to 99 percent	213	1 812	62 196	197 765	204 491	140 144	5 271	18
Specialization 80 to 89 percent	62	525	14 872	45 736	51 891	31 115	D	S
Specialization 70 to 79 percent	142	796	23 476	61 588	81 715	60 828	1 478	28
Specialization 60 to 69 percent	163	891	26 426	52 486	79 866	50 214	5 933	65
Specialization 51 to 59 percent	76	433	15 084	31 931	57 669	32 802	D	S
All other construction activities								
Establishments specializing 51 percent or more...	111	D	D	D	D	D	D	S
Specialization 100 percent	46	D	D	D	D	D	D	S
Specialization 90 to 99 percent	17	18	195	552	473	425	85	58
Specialization 80 to 89 percent	5	203	D	D	D	2 252	D	S
Specialization 70 to 79 percent	10	263	7 455	53 952	70 961	69 057	1 488	12
Specialization 60 to 69 percent	24	193	11 509	27 972	28 306	24 486	D	S
Specialization 51 to 59 percent	10	219	9 401	12 171	18 047	16 291	5 549	23
Kind of business activity, nsk								
Establishments specializing 51 percent or more...	3	D	D	D	D	D	D	S
Specialization 100 percent	3	D	D	D	D	D	D	S

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 11. Value of Construction Work for Establishments by Location of Construction Work: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of construction work	Value of construction work ¹	Relative standard error of estimate (percent) for column—
237110, Water and sewer line and related structures construction		
United States	32 501 442	1
Construction work done in—		
Alabama	424 429	4
Alaska	122 681	9
Arizona	762 483	5
Arkansas	267 716	6
California	3 944 191	5
Colorado	1 035 086	7
Connecticut	268 992	3
Delaware	141 868	14
District of Columbia	68 289	3
Florida	2 126 553	5
Georgia	1 157 628	5
Hawaii	211 282	6
Idaho	166 576	8
Illinois	953 152	7
Indiana	599 189	3
Iowa	303 628	10
Kansas	357 378	7
Kentucky	434 344	8
Louisiana	383 126	7
Maine	116 636	6
Maryland	440 070	4
Massachusetts	679 528	8
Michigan	1 024 444	7
Minnesota	979 250	4
Mississippi	248 713	5
Missouri	563 374	9
Montana	110 715	7
Nebraska	158 658	7
Nevada	385 529	5
New Hampshire	106 818	5
New Jersey	559 009	9
New Mexico	284 013	7
New York	1 252 262	6
North Carolina	999 766	4
North Dakota	82 238	10
Ohio	944 801	5
Oklahoma	324 658	10
Oregon	501 607	6
Pennsylvania	1 159 242	23
Rhode Island	54 777	14
South Carolina	463 910	8
South Dakota	120 684	13
Tennessee	553 967	10
Texas	3 324 016	6
Utah	313 624	13
Vermont	85 953	5
Virginia	1 174 418	5
Washington	793 037	4
West Virginia	176 044	6
Wisconsin	711 828	10
Wyoming	79 260	4

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.